

Sequence Listing

SEQUENCE LISTING

<110> Steinkasserer, Alexander

<120> Use of Soluble Forms of CD83 and Nucleic Acids Encoding them for the Treatment or Prevention of Diseases

<130> 032723woJH

<140>

<141>

<160> 12

<170> PatentIn Ver. 2.1

<210> 1

<211> 618
<212> RNA

<212> DNA

<213> Homo sapiens
<220>

2220
-221-

<221> CDS
<222> (1)

<222> (1) . . (01)

<400> 1
atg tca

atg tgc cgc ggc ccc tag ccc tgg ccc ccc agc
 Met Ser Arg Gly Leu Gln Leu Leu Leu Leu Ser Cys Ala Tyr Ser Leu
 1 5 10 15

gct ccc gcg acg ccg gag gtg aag gtg gct tgc tcc gaa gat gtg gac 96
 Ala Pro Ala Thr Pro Glu Val Lys Val Ala Cys Ser Glu Asp Val Asp
 20 25 30

ttg ccc tgc acc gcc ccc tgg gat ccg cag gtt ccc tac acg gtc tcc 144
 Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Val Pro Tyr Thr Val Ser
 35 40 45

tgg gtc aag tta ttg gag ggt ggt gaa gag agg atg gag aca ccc cag 192
 Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met Glu Thr Pro Gln
 50 55 60

gaa gac cac ctc agg gga cag cac tat cat cag aag ggg caa aat ggt 240
 Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys Gly Gln Asn Gly
 65 70 75 80

tct ttc gac gcc ccc aat gaa agg ccc tat tcc ctg aag atc cga aac 288
 Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn
 85 90 95

act acc agc tgc aac tcg ggg aca tac agg tgc act ctg cag gac ccg 336
 Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro
 100 105 110

gat ggg cag aga aac cta agt ggc aag gtg atc ttg aga gtg aca gga 384
 Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu Arg Val Thr Gly
 115 120 125

tgc cct gca cag cgt aaa gaa gag act ttt aag aaa tac aga gcg gag 432
 Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu
 130 135 140

att gtc ctg ctg ctg gct ctg gtt att ttc tac tta aca ctc atc att 480
 Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu Thr Leu Ile Ile
 145 150 155 160

ttc act tgt aag ttt gca cgg cta cag agt atc ttc cca gat ttt tct 528
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Phe	Thr	Cys	Lys	Phe	Ala	Arg	Leu	Gln	Ser	Ile	Phe	Pro	Asp	Phe	Ser
165								170						175	
aaa	gct	ggc	atg	gaa	cga	gct	ttt	ctc	cca	gtt	acc	tcc	cca	aat	aag
Lys	Ala	Gly	Met	Glu	Arg	Ala	Phe	Leu	Pro	Val	Thr	Ser	Pro	Asn	Lys
180								185						190	
cat	tta	ggg	cta	gtg	act	cct	cac	aag	aca	gaa	ctg	gta	tga		618
His	Leu	Gly	Leu	Val	Thr	Pro	His	Lys	Thr	Glu	Leu	Val			
195							200						205		

<210> 2
<211> 205
<212> PRT
<213> Homo sapiens

Met	Ser	Arg	Gly	Leu	Gln	Leu	Leu	Leu	Leu	Ser	Cys	Ala	Tyr	Ser	Leu
1				5					10				15		
Ala	Pro	Ala	Thr	Pro	Glu	Val	Lys	Val	Ala	Cys	Ser	Glu	Asp	Val	Asp
	20					25							30		
Leu	Pro	Cys	Thr	Ala	Pro	Trp	Asp	Pro	Gln	Val	Pro	Tyr	Thr	Val	Ser
	35					40						45			
Trp	Val	Lys	Leu	Leu	Glu	Gly	Gly	Glu	Glu	Arg	Met	Glu	Thr	Pro	Gln
	50				55					60					
Glu	Asp	His	Leu	Arg	Gly	Gln	His	Tyr	His	Gln	Lys	Gly	Gln	Asn	Gly
	65				70				75				80		
Ser	Phe	Asp	Ala	Pro	Asn	Glu	Arg	Pro	Tyr	Ser	Leu	Lys	Ile	Arg	Asn
		85					90						95		
Thr	Thr	Ser	Cys	Asn	Ser	Gly	Thr	Tyr	Arg	Cys	Thr	Leu	Gln	Asp	Pro
		100					105						110		
Asp	Gly	Gln	Arg	Asn	Leu	Ser	Gly	Lys	Val	Ile	Leu	Arg	Val	Thr	Gly
		115					120					125			
Cys	Pro	Ala	Gln	Arg	Lys	Glu	Glu	Thr	Phe	Lys	Lys	Tyr	Arg	Ala	Glu
		130				135					140				
Ile	Val	Leu	Leu	Ala	Leu	Val	Ile	Phe	Tyr	Leu	Thr	Leu	Ile	Ile	
	145					150				155			160		
Phe	Thr	Cys	Lys	Phe	Ala	Arg	Leu	Gln	Ser	Ile	Phe	Pro	Asp	Phe	Ser
		165						170					175		
Lys	Ala	Gly	Met	Glu	Arg	Ala	Phe	Leu	Pro	Val	Thr	Ser	Pro	Asn	Lys
		180						185					190		
His	Leu	Gly	Leu	Val	Thr	Pro	His	Lys	Thr	Glu	Leu	Val			
		195					200					205			

<210> 3
<211> 2051
<212> DNA
<213> Mus musculus
<220>

Sequence Listing

<221> CDS
<222> (14)..(601)

Sequence Listing

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gtcatctaca agctatggtg agatcaggt gaagcagggt catggaaat ttgaacactc 931
tgagctggcc ctgtgacaga ctcctgagga cagctgcct ctcctacatc tggatacat 991
ctcttgaat ttgtcctgtt tcgttgcacc agcccagatg tctcacatct ggcggaaatt 1051
gacaggccaa gctgtgagcc agtggaaat atttagcaaa taattccca gtgcgaaggt 1111
cctgcttata gtaaggagta ttatgtgtac atagaaatga gaggtcagtg aactattccc 1171
cagcaggccc tttcatctg gaaaagacat ccacaaaagc agcaatacag agggatgcca 1231
catttatttt ttaatcttc atgtacttgt caaagaagaa ttttcatgt ttttcaaag 1291
aagtgtgttt ctttcctttt ttaaaatatg aaggcttagt tacatagcat tgctagctga 1351
caagcagcct gagagaagat ggagaatgtt cctcaaaata gggacagcaa gctagaagca 1411
ctgtacagtg ccctgctggg aagggcagac aatggactga gaaaccagaa gtctggccac 1471
aagattgtct gtatgattct ggacgagtca cttgtggttt tcactctctg gttagtaaac 1531
cagatagttt agtctgggtt gaatacaatg gatgtgaagt tgcttgggaa aagctgaatg 1591
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aaaggacatg agcatggtct tctgtgtaa ctcctcctga gaaacgtgga gactggctca 1771
gcgccttgcg cttgaaggac taatcacaag ttcttgaaga tatggaccta ggggagctat 1831
tgcgccacga caggaggaag ttctcagatg ttgcattgtat gtaacattgt tgcatttctt 1891
taatgagctg ggctccttcc tcatttgcctt cccaaagaga ttttgcctt ctaatggtgt 1951
gcccatcacc cacactatga aagtaaaagg gatgctgagc agatacagcg tgcttacctc 2011
tcagccatga ctttcatgct attaaaagaa tgcattgtgaa 2051

<210> 4
<211> 196
<212> PRT
<213> Mus musculus

<400> 4
Met Ser Gln Gly Leu Gln Leu Leu Phe Leu Gly Cys Ala Cys Ser Leu
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Ala Pro Ala Met Ala Met Arg Glu Val Thr Val Ala Cys Ser Glu Thr
20 25 30
Ala Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Leu Ser Tyr Ala
35 40 45
Val Ser Trp Ala Lys Val Ser Glu Ser Gly Thr Glu Ser Val Glu Leu
50 55 60
Pro Glu Ser Lys Gln Asn Ser Ser Phe Glu Ala Pro Arg Arg Arg Ala

Sequence Listing

65	70	75	80
Tyr Ser Leu Thr Ile Gln Asn Thr Thr Ile Cys Ser Ser Gly Thr Tyr			
	85	90	95
Arg Cys Ala Leu Gln Glu Leu Gly Gly Gln Arg Asn Leu Ser Gly Thr			
	100	105	110
Val Val Leu Lys Val Thr Gly Cys Pro Lys Glu Ala Thr Glu Ser Thr			
	115	120	125
Phe Arg Lys Tyr Arg Ala Glu Ala Val Leu Leu Phe Ser Leu Val Val			
	130	135	140
Phe Tyr Leu Thr Leu Ile Ile Phe Thr Cys Lys Phe Ala Arg Leu Gln			
	145	150	155
Ser Ile Phe Pro Asp Ile Ser Lys Pro Gly Thr Glu Gln Ala Phe Leu			
	165	170	175
Pro Val Thr Ser Pro Ser Lys His Leu Gly Pro Val Thr Leu Pro Lys			
	180	185	190
Thr Glu Thr Val			
	195		

<210> 5
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: primer for CD83ext

<400> 5
 tccccccggga acgcccggagg tgaagggtggc t 31

<210> 6
 <211> 31
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: primer for CD83ext

<400> 6
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<210> 7
 <211> 435
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: partial
 sequence of pGEX2ThCD83ext
 <220>
 <221> CDS
 <222> (1)..(417)
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 <221> mat_peptide
 <222> (28)..(417)

Sequence Listing

<400> 7
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 Pro Pro Lys Ser Asp Leu Val Pro Arg Gly Ser Pro Gly Thr Pro Glu
 -5 -1 1 5

gtg aag gtg gct tgc tcc gaa gat gtg gac ttg ccc tgc acc gcc ccc 96
 Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
 10 15 20

tgg gat ccg cag gtt ccc tac acg gtc tcc tgg gtc aag tta ttg gag 144
 Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
 25 30 35

ggt ggt gaa gag agg atg gag aca ccc cag gaa gac cac ctc agg gga 192
 Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
 40 45 50 55

cag cac tat cat cag aag ggg caa aat ggt tct ttc gac gcc ccc aat 240
 Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
 60 65 70

gaa agg ccc tat tcc ctg aag atc cga aac act acc agc tgc aac tcg 288
 Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
 75 80 85

ggg aca tac agg tgc act ctg cag gac ccg gat ggg cag aga aac cta 336
 Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
 90 95 100

agt ggc aag gtg atc ttg aga gtg aca gga tgc cct gca cag cgt aaa 384
 Ser Gly Lys Val Ile Leu Arg Val Thr Gly Cys Pro Ala Gln Arg Lys
 105 110 115

gaa gag act ttt aag aaa tac aga gcg gag att tgagaattca tcgtgact 435
 Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
 120 125 130

<210> 8

<211> 139

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: partial
 sequence of PGEX2ThCD83ext

<400> 8
 Pro Pro Lys Ser Asp Leu Val Pro Arg Gly Ser Pro Gly Thr Pro Glu
 -5 -1 1 5

val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
 10 15 20

Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
 25 30 35

Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
 40 45 50 55

Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
 60 65 70

Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
 75 80 85

Sequence Listing

Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
 90 95 100

Ser Gly Lys Val Ile Leu Arg Val Thr Gly Cys Pro Ala Gln Arg Lys
 105 110 115

Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
 120 125 130

<210> 9

<211> 435

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: partial
 sequence of pgEX2ThCD83ext_mut129_Ctos

<220>

<221> CDS

<222> (1)..(417)

<220>

<221> mat_peptide

<222> (28)..(417)

<400> 9

cct cca aaa tcg gat ctg gtt ccg cgt gga tcc ccg gga acg ccg gag 48
 Pro Pro Lys Ser Asp Leu Val Pro Arg Gly Ser Pro Gly Thr Pro Glu
 -5 -1 1 5

gtg aag gtg gct tgc tcc gaa gat gtg gac ttg ccc tgc acc gcc ccc 96
 Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
 10 15 20

tgg gat ccg cag gtt ccc tac acg gtc tcc tgg gtc aag tta ttg gag 144
 Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
 25 30 35

ggt ggt gaa gag agg atg gag aca ccc cag gaa gac cac ctc agg gga 192
 Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
 40 45 50 55

cag cac tat cat cag aag ggg caa aat ggt tct ttc gac gcc ccc aat 240
 Gln His Tyr His Gln Lys Gln Asn Gln Ser Phe Asp Ala Pro Asn
 60 65 70

gaa agg ccc tat tcc ctg aag atc cga aac act acc agc tgc aac tcg 288
 Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
 75 80 85

ggg aca tac agg tgc act ctg cag gac ccg gat ggg cag aga aac cta 336
 Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
 90 95 100

agt ggc aag gtg atc ttg aga gtg aca gga tcc cct gca cag cgt aaa 384
 Ser Gly Lys Val Ile Leu Arg Val Thr Gly Ser Pro Ala Gln Arg Lys
 105 110 115

gaa gag act ttt aag aaa tac aga gcg gag att tgagaattca tcgtgact 435
 Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
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Sequence Listing

<210> 10

<211> 139

<212> PRT

<213> Artificial Sequence

<223> Description of Artificial Sequence: partial
sequence of pGEX2ThCD83ext_mut129_CtoS

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Val Lys Val Ala Cys Ser Glu Asp Val Asp Leu Pro Cys Thr Ala Pro
10 15 20
Trp Asp Pro Gln Val Pro Tyr Thr Val Ser Trp Val Lys Leu Leu Glu
25 30 35
Gly Gly Glu Glu Arg Met Glu Thr Pro Gln Glu Asp His Leu Arg Gly
40 45 50 55
Gln His Tyr His Gln Lys Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn
60 65 70
Glu Arg Pro Tyr Ser Leu Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser
75 80 85
Gly Thr Tyr Arg Cys Thr Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu
90 95 100
Ser Gly Lys Val Ile Leu Arg Val Thr Gly Ser Pro Ala Gln Arg Lys
105 110 115
Glu Glu Thr Phe Lys Lys Tyr Arg Ala Glu Ile
120 125 130

<210> 11

<211> 32

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
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<400> 11

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32

<210> 12

<211> 66

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer
antisense-CD83extra_mutantCtoS

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aattagaatt ctcaaatttc cgctctgtat ttctttaaaag tctttttttt acgctgtgca 60
ggggat 66

<210> 13

Sequence Listing

<211> 209

<212> PRT

<213> Homo sapiens

<400> 13

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Ala Tyr Ser Leu Ala Pro Ala Thr Pro Glu Val Lys Val Ala Cys Ser
20 25 30

Glu Asp Val Asp Leu Pro Cys Thr Ala Pro Trp Asp Pro Gln Val Pro
35 40 45

Tyr Thr Val Ser Trp Val Lys Leu Leu Glu Gly Gly Glu Glu Arg Met
50 55 60

Glu Thr Pro Gln Glu Asp His Leu Arg Gly Gln His Tyr His Gln Lys
65 70 75 80

Gly Gln Asn Gly Ser Phe Asp Ala Pro Asn Glu Arg Pro Tyr Ser Leu
85 90 95

Lys Ile Arg Asn Thr Thr Ser Cys Asn Ser Gly Thr Tyr Arg Cys Thr
100 105 110

Leu Gln Asp Pro Asp Gly Gln Arg Asn Leu Ser Gly Lys Val Ile Leu
115 120 125

Arg Val Thr Gly Cys Pro Ala Gln Arg Lys Glu Glu Thr Phe Lys Lys
130 135 140

Arg Arg Ala Glu Ile Val Leu Leu Leu Ala Leu Val Ile Phe Tyr Leu
145 150 155 160

Thr Leu Ile Ile Phe Thr Cys Lys Phe Ala Arg Leu Gln Ser Ile Phe
165 170 175

Pro Asp Phe Ser Lys Ala Gly Met Glu Arg Ala Phe Leu Pro Val Thr
180 185 190

Ser Pro Asn Lys His Leu Gly Leu Val Thr Pro His Lys Thr Glu Leu
195 200 205

val
209